

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2004/004330

| <b>A. CLASSIFICATION OF SUBJECT MATTER</b><br>IPC 7 C12N5/10 C12N15/82 A01H5/00   |  |  |
|---|--|--|
| According to International Patent Classification (IPC) or to both national classification and IPC   |  |  |
| <b>B. FIELDS SEARCHED</b><br>Minimum documentation searched (classification system followed by classification symbols)<br>IPC 7 C12N A01H   |  |  |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched   |  |  |
| Electronic data base consulted during the international search (name of data base and, where practical, search terms used)<br>EPO-Internal, BIOSIS, EMBASE, Sequence Search, PAJ, WPI Data  |  |  |
| <b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>   |  |  |
| Category *  | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.  |
| X   | WO 02/16655 A (THE SCRIPPS RESEARCH INSTITUTE; SYNGENTA PARTICIPATIONS AG; HARPER, JE) 28 February 2002 (2002-02-28) page 217          | 1,4,6,7  |
| X   | WO 01/59140 A (THE UNIVERSITY OF YORK; BOWLES, DIANA, JOY; LI, YI; LIM, ENG-KIAT) 16 August 2001 (2001-08-16) cited in the application | 1-12,15, 16,19-27  |
| Y   | page 1 - page 3<br>page 9<br>figures 26-29   | 1-12,15, 16,19-27  |
| -----<br>-/--   |  |  |
| <input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.   |  |  |
| * Special categories of cited documents :<br>*A* document defining the general state of the art which is not considered to be of particular relevance<br>*E* earlier document but published on or after the international filing date<br>*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)<br>*O* document referring to an oral disclosure, use, exhibition or other means<br>*P* document published prior to the international filing date but later than the priority date claimed<br>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention<br>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone<br>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.<br>*G* document member of the same patent family |  |  |
| Date of the actual completion of the international search<br>24 February 2005   |  | Date of mailing of the international search report<br>10/03/2005 |
| Name and mailing address of the ISA<br>European Patent Office, P.B. 5818 Patentlaan 2<br>NL - 2280 HV Rijswijk<br>Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,<br>Fax: (+31-70) 340-3016  |  | Authorized officer<br>Holtorf, S                                 |

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| X          | LIM ENG-KIAT ET AL: "Identification of glucosyltransferase genes involved in sinapate metabolism and lignin synthesis in Arabidopsis"<br>JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US,<br>vol. 276, no. 6,<br>9 February 2001 (2001-02-09), pages 4344-4349, XP002172233<br>ISSN: 0021-9258<br>figure 2<br>figure 5<br>page 4348, right-hand column, last paragraph | 1-12,15,<br>16,19-26  |
| Y          | LIM E-K ET AL: "The activity of Arabidopsis glycosyltransferases toward salicylic acid, 4-hydroxybenzoic acid, and other benzoates"<br>JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US,<br>vol. 277, no. 1,<br>4 January 2002 (2002-01-04), pages 586-592, XP002237707<br>ISSN: 0021-9258<br>figure 2  | 1-12,15,<br>16,19-27  |
| Y          | LI YI ET AL: "Phylogenetic analysis of the UDP-glycosyltransferase multigene family of Arabidopsis thaliana"<br>JOURNAL OF BIOLOGICAL CHEMISTRY,<br>vol. 276, no. 6,<br>9 February 2001 (2001-02-09), pages 4338-4343, XP002318942<br>ISSN: 0021-9258<br>figure 1<br>figure 2<br>figure 3  | 1-12,15,<br>16,19-27  |
| Y          | DATABASE EMBL 'Online!<br>13 May 1999 (1999-05-13), "Arabidopsis thaliana DNA chromosome 3, BAC clone F18B3"<br>XP002318944<br>retrieved from EBI accession no.<br>EM_PRO:ATF18B3<br>Database accession no. ATF18B3<br>abstract  | 1-12,15,<br>16,19-27  |
|            | -----<br>-/--  |                       |

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| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No.  |
|------------|---|------------------------|
| A          | DATABASE EMBL 'Online!<br>15 June 2000 (2000-06-15), "Arabidopsis<br>thaliana cDNA clone:AP204c01R, 5' end."<br>XP002318945<br>retrieved from EBI accession no.<br>EM_PRO:AV526055<br>Database accession no. AV526055<br>abstract |                        |
| A          | -----<br>WO 02/06320 A (INSTITUT FUER<br>PFLANZENBIOCHEMIE; MILKOWSKI, CARSTEN;<br>BAUMERT, ALFRED;)<br>24 January 2002 (2002-01-24)<br>the whole document  |                        |
| A          | -----<br>ROSS J ET AL: "Higher plant<br>glycosyltransferases"<br>GENOMEBIOLOGY 2001 UNITED KINGDOM,<br>vol. 2, no. 2, 2001, pages 3004.1-3004.6,<br>XP002318943<br>ISSN: 1465-6906<br>abstract                                    |                        |
| A          | -----<br>WO 03/078629 A (BASF PLANT SCIENCE GMBH;<br>KOCK, MICHAEL; BAUER, JOERG)<br>25 September 2003 (2003-09-25)<br>the whole document   |                        |
| A          | -----<br>WO 02/00894 A (CROPDESIGN N.V; BROEKAERT,<br>WILLEM; ZHOU, ZHONGYI; MIRONOV, VLADIMIR)<br>3 January 2002 (2002-01-03)<br>the whole document  |                        |
| E          | -----<br>WO 2004/113540 A (THE UNIVERSITY OF YORK;<br>EASTMOND, PETER)<br>29 December 2004 (2004-12-29)<br>the whole document   | 1,4,<br>6-10,<br>22-24 |

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### Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of Item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
  - a. type of material
    - ☒ a sequence listing
    - ☒ table(s) related to the sequence listing
  - b. format of material
    - ☒ in written format
    - ☒ in computer readable form
  - c. time of filing/furnishing
    - ☐ contained in the international application as filed
    - ☐ filed together with the international application in computer readable form
    - ☒ furnished subsequently to this Authority for the purpose of search
2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

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| Patent document<br>cited in search report |   | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
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| WO 0200894                                | A | 03-01-2002          | AU 9165601 A               | 08-01-2002          |
|   |   |                     | WO 0200894 A2              | 03-01-2002          |
| WO 2004113540                             | A | 29-12-2004          | WO 2004113540 A1           | 29-12-2004          |